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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,371	11/05/2001	Namik Hrle	DE92000035US1/2264P	4844
7590 12/30/2004			EXAMINER	
SAWYER LAW GROUP			ORTIZ, BELIX M	
P.O. Box 51418	8			
Palo Alto, CA 94303			ART UNIT	PAPER NUMBER
, and the second			2164	

DATE MAILED: 12/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(a)		
Office Antique Communication			Applicant(s)		
		10/010,371	HRLE ET AL.		
	Office Action Summary	Examiner	Art Unit		
	·	Belix M. Ortiz	2164		
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till ply within the statutory minimum of thirty (30) day de will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	nely filed vs will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).		
Status	·				
1)🔀	Responsive to communication(s) filed on 12	August-2004.			
• • • • • • • • • • • • • • • • • • • •		is action is non-final.			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims		•		
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1,4-9,12-17 and 20-24 is/are pendin 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1,4-9,12-17 and 20-24 is/are rejecte Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.			
Applicat	ion Papers				
10)	The specification is objected to by the Examination The drawing(s) filed on is/are: a) accomplished any not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).		
Priority (	under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachmer	nt(e)		SAM RIMELL PRIMARY EXAMINE		
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/06 or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D  5) Notice of Informal I  6) Other:			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Art Unit: 2164

#### **DETAILED ACTION**

#### Remarks

1. In response to communications files on 12-August-2004, claims 2-3, 10-11, and 18-19 are cancelled; the specification of the disclosure, and claims 1, 4-5, 9, 12, 17, and 20 are amended per applicant's request. Therefore, claims 1, 4-9, 12-17, and 20-24 are presently pending in the application.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 4-9, 12-17, and 20-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Ponnekanti (U.S. patent 6,606,626).

As to claim 1, <u>Ponnekanti</u> teaches a method for reducing lock contention of concurrent transactions on a plurality of rows of a table in a relational data base system in response to a database query having a set of predicates (see column 2, lines 30-32; column 3, lines 1-9; column 3, lines 26-28; and column 20, lines 8-13), the method comprising the steps of:

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- (a) scanning all rows of the table within an access range determined by the query (see column 9, lines 59-62; column 9, lines 66-67; and column 10, lines 1-2), wherein the scanning step (a) further comprising the step of:
  - (a1) accessing the rows of the table with uncommitted read semantics irrespective of current locks (see column 12, lines 46-49 and column 16, lines 53-56);
- (b) evaluating each scanned row to determine whether the row satisfies the set of predicates (see column 10, lines 1-4), wherein the step of evaluating (b) further comprises the steps of:
  - (b1) evaluating each row to determine whether it satisfies the set of predicates of the query (see column 3, lines 2-7); and
  - (b2) continuing the scan if the row does not satisfy the set of predicates of the query irrespective of a current lock on the row (see column 3, lines 62-65; column 15, lines 11-13; and column 16, lines 42-44); and
- (c) returning the row if it satisfies the set of predicates of the query (see column 3, lines 62-63).

As to claim 4, <u>Ponnekanti</u> teaches wherein the returning step (c) further comprises the steps of:

- (c1) requesting a lock on the row (see column 3, lines 46-50);
- (c2) suspending the scan, if the requested lock is refused (see column 4, lines 10-11);
- (c3) repeating the request for a lock and re-evaluating the row when the lock is permitted (see column 12, lines 52-54 and column 12, lines 61-67); and

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(c4) returning the row if the row still satisfies the set of predicates of the query (see column 3, lines 62-63).

As to claim 5, <u>Ponnekanti</u> teaches wherein the returning step (c) further comprises the step of:

(c5) releasing the lock, skipping the row, and continuing the scan if the row no longer satisfies the set of predicates of the query (see column 16, lines 42-62).

As to claim 6, <u>Ponnekanti</u> teaches wherein the returning step (c) further includes the step of:

(c1) returning the row as a result set (see column 3, lines 62-63).

As to claim 7, <u>Ponnekanti</u> teaches wherein the returning step (c) further includes the step of:

(c1) returning the row if the row is a committed row (see column 15, lines 8-10).

As to claim 8, <u>Ponnekanti</u> teaches wherein the database query is a SQL statement (see column 1, lines 65-67).

As to claim 9, <u>Ponnekanti</u> teaches an apparatus for reducing lock contention of concurrent transactions on a plurality of rows of a table in a relational data base system in response to a database query having a set of predicates (see figure 1A; column 2, lines

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30-32; column 3, lines 1-9; column 3, lines 26-28; and column 20, lines 8-3), comprising:

means for scanning all rows of the table within an access range determined by the query (see column 9, lines 59-62; column 9, lines 66-67; and column 10, lines 1-2), wherein means for the scanning further comprising:

means for accessing the rows of the table with uncommitted read semantics irrespective of current locks (see column 12, lines 46-49 and column 16, lines 53-56);

means for evaluating each scanned row to determine whether the row satisfies the set of predicates (see column 10, lines 1-4), wherein the means for evaluating further comprising:

means for evaluating each row to determine whether it satisfies the set of predicates of the query (see column 3, lines 2-7); and

means for continuing the scan if the row does not satisfy the set of predicates of the query irrespective of a current lock on the row (see column 3, lines 62-65; column 15, lines 11-13; and column 16, lines 42-44); and

means for returning the row if it satisfies the set of predicates of the query (see column 3, lines 62-63).

As to claim 12, <u>Ponnekanti</u> teaches wherein the means for returning step further comprising:

means for requesting a lock on the row (see column 3, lines 46-50);

means for suspending the scan, if the requested lock is refused (see column 4, lines 10-11);

means for repeating the request for a lock and re-evaluating the row when the lock is permitted (see column 12, lines 52-54 and column 12, lines 61-67); and means for returning the row if the row still satisfies the set of predicates of the query (see column 3, lines 62-63).

As to claim 13, <u>Ponnekanti</u> teaches wherein the means for returning step further includes means for releasing the lock, skipping the row, and continuing the scan if the row no longer satisfies the set of predicates of the query (see column 16, lines 42-62).

As to claim 14, <u>Ponnekanti</u> teaches wherein the row is returned as a result set (see column 3, lines 62-63).

As to claim 15, <u>Ponnekanti</u> teaches wherein the row returned is a committed row (see column 15, lines 8-10).

As to claim 16, <u>Ponnekanti</u> teaches wherein the database query is a SQL statement (see column 1, lines 65-67).

As to claim 17, <u>Ponnekanti</u> teaches a computer readable medium containing programming instructions for reducing lock contention of concurrent transactions on a

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plurality of rows of a table in a relational data base system in response to a database query having a set of predicates (see column 2, lines 30-32; column 3, lines 1-9; column 3, lines 26-28; column 6, lines 66-67; column 7, lines 1-9; and column 20, lines 8-13), the programming instructions for:

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- (a) scanning all rows of the table within an access range determined by the query (see column 9, lines 59-62; column 9, lines 66-67; and column 10, lines 1-2), wherein the scanning instruction (a) further comprising the instruction for:
  - (a1) accessing the rows of the table with uncommitted read semantics irrespective of current locks (see column 12, lines 46-49 and column 16, lines 53-56);
- (b) evaluating each scanned row to determine whether the row satisfies the set of predicates (see column 10, lines 1-4), wherein the instruction for evaluating (b) further comprises the instruction for:
- (b1) evaluating each row to determine whether it satisfies the set of predicates of the query (see column 3, lines 2-7); and
  - (b2) continuing the scan if the row does not satisfy the set of predicates of the query (see column 3, lines 62-65; column 15, lines 11-13; and column 16, lines 42-44); and
- (c) returning the row if it satisfies the set of predicates of the query (see column 3, lines 62-63).

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As to claim 20, <u>Ponnekanti</u> teaches wherein the returning step instruction (c) further comprises the instruction for:

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- (c1) requesting a lock on the row (see column 3, lines 46-50);
- (c2) suspending the scan, if the requested lock is refused (see column 4, lines 10-11);
- (c3) repeating the request for a lock and re-evaluating the row when the lock is permitted (see column 12, lines 52-54 and column 12, lines 61-67); and
- (c4) returning the row if the row still satisfies the set of predicates of the query (see column 3, lines 62-63).

As to claim 21, <u>Ponnekanti</u> teaches wherein the returning instruction (c) further comprises the instruction for:

(c5) releasing the lock, skipping the row, and continuing the scan if the row no longer satisfies the set of predicates of the query (see column 16, lines 42-62).

As to claim 22, <u>Ponnekanti</u> teaches wherein the returning instruction (c) further includes the instruction for:

(c1) returning the row as a result set (see column 3, lines 62-63).

As to claim 23, <u>Ponnekanti</u> teaches wherein the returning instruction (c) further includes the instruction for:

(c1) returning the row if the row is a committed row (see column 15, lines 8-10).

As to claim 24, <u>Ponnekanti</u> teaches wherein the database query is a SQL statement (see column 1, lines 65-67).

# Response to Arguments

4. Applicant's arguments filed 12- August- 2004 with respect to the rejected claims in view of the cited references have been fully considered but they are not found persuasive:

In response to applicants' arguments that "Ponnekanti, fail to teach or suggest continuing the scan if the row does not satisfy the set of predicates of the query irrespective of current locks", the arguments have been fully considered but are not deemed persuasive, because Ponnekanti teaches "If, however, the data does not qualify ("no" case), the row is instead skipped, as the row will never qualify" (see Ponnekanti, column 3, lines 62-65).

"If, however, the data does not qualify ("no" case), the row is instead skipped, as the row will never qualify, as indicated by step 322", (see <u>Ponnekanti</u>, column 15, lines 11-13).

### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Belix M. Ortiz whose telephone number is 571-272-4081.

The examiner can normally be reached on moday-friday 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571-272-4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

bmo

December 14, 2004

SAM RIMELL. PRIMARY EXAMINER